Contents

No. 1 1–182 issued July 1989
No. 2 183–370 issued August 1989
No. 3 371–576 issued September 1989

Adhin MR, Duin J van: Translational regulation of the lysis gene in RNA bacteriophage fr requires a UUG initiation codon 137
Aldrich TL, Rothmel RK, Chakrabarty AM: Identification of nucleotides critical for activity of the *Pseudomonas putida catBC* promoter 266
Alonso JC → Kupsch J 402
Alphey LS → Leigh Brown AJ 208
Alvarez E → Díez B 572
Arnvig K → Nilsson D 565
Atlung T → Skarstad K 50
Aviv D → Galili S 289

Barredo JL → Díez B 572
Battaglia PA → Gigliani F 18
Bauer CE → Young DA 1
Bazin C → Silber J 475
Benedik MJ: High efficiency transduction of single strand plasmid DNA into enteric bacteria 353
Bertin P → Lejeune P 361
Blasco F, Iobbi C, Giordano G, Chippaux M, Bonnefoy V: Nitrate reductase of *Escherichia coli*: Completion of the nucleotide sequence of the *nar* operon and reassessment of the role of the α and β subunits in iron binding and electron transfer 249
Bonas U, Stall RE, Staskawicz B: Genetic and structural characterization of the avirulence gene *avrBs3* from *Xanthomonas campestris* pv. *vesicatoria* 127
Bonnefoy V → Blasco F 249
Boos W → Dahl MK 199
Bos RC van den → Hontelez JGJ 536
Botterman J → De Almeida ERP 78
Boye E → Skarstad K 50
Bradshaw VA, McEntee K: DNA damage activates transcription and transposition of yeast Ty retrotransposons 465
Brendel M → Haase E 64
Broekhuijsen M → Unkles SE 99
Brombach M → Pon CL 355
Bucheton A → Busseau I 222
Busseau I, Pelisson A, Bucheton A: I elements of *Drosophila melanogaster* generate specific chromosomal rearrangements during transposition 222

Cabello A → Ellard FM 491
Campbell EI → Unkles SE 99
Cantoral JM → Díez B 572
Carr AM, MacNeill SA, Hayles J, Nurse P: Molecular cloning and sequence analysis of mutant alleles of the fission yeast *cdc2* protein kinase gene: Implications for *cdc2* $^{+}$ protein structure and function 41
Carrez D → Unkles SE 99
Chakrabarty AM → Aldrich TL 266
Chao S, Raines CA, Longstaff M, Sharp PJ, Gale MD, Dyer TA: Chromosomal location and copy number in wheat and some of its close relatives of genes for enzymes involved in photosynthesis 423
Chen Y-C → Rowland LJ 33
Chia W → Martin M 118
Chippaux M → Blasco F 249
Chourey PS → Rowland LJ 33
Colson C → Lejeune P 361
Contreras R → Unkles SE 99

Dahl MK, Francoz E, Saurin W, Boos W, Manson MD, Hofnung M: Comparison of sequences from the *malB* regions of *Salmonella typhimurium* and *Enterobacter aerogenes* with *Escherichia coli* K12: A potential new regulatory site in the interoperonic region 199
Danchin A → Lejeune P 361
Das RC, Shultz JL, Lehman DJ: α-Factor leader sequence-directed transport of *Escherichia coli* β-galactosidaase in the secretory pathway of *Saccharomyces cerevisiae* 240
Datta P → Schweizer HP 516
De Almeida ERP, Gossele V, Muller CG, Dockx J, Reynaerts A, Botterman J, Krebbers E, Timko MP: Transgenic expression of two marker genes under the control of an *Arabidopsis rbcS* promoter: Sequences encoding the Rubisco transit peptide increase expression levels 78
Díez B, Barredo JL, Alvarez E, Cantoral JM, Solingen P van, Groenen MAM, Veenstra AE, Martin JF: Two genes involved in penicillin biosynthesis are linked in a 5.1 kb *Sal*I fragment in the genome of *Penicillium chrysogenum* 572
Dockx J → De Almeida ERP 78
Duin J van → Adhin MR 137
Dyer TA → Chao S 423

Edelman M → Galili S 289
Eikmanns BJ, Follettie MT, Griot MU, Sinskey AJ: The phosphoenolpyruvate carboxylase gene of *Corynebacterium glutamicum*: Molecular cloning, nucleotide sequence, and expression 330
Ellard FM, Cabello A, Salmond GPC: Bacteriophage λ-mediated transposon mutagenesis of phytopathogenic and epiphytic *Erwinia* species is strain dependent 491
Ennis HL → Shaw DR 453
Erickson L, Kemble R, Swanson E: The *Brassica* mitochondrial plasmid can be sexually transmitted. Pollen transfer of a cytoplasmic genetic element 419
Esser K → Kempken F 523
Ezaki B, Ogura T, Mori H, Niki H, Hiraga S: Involvement of DnaK protein in mini-F plasmid replication: Temperature-sensitive *seg* mutations are located in the *dnaK* gene 183

Feyter R de, Wallace C, Lane D: Autoregulation of the *ccd* operon in the F plasmid 481
Fitzmaurice WP, Saari LL, Lowery RG, Ludden PW, Roberts GP: Genes coding for the reversible ADP-ribosylation system of dinitrogenase reductase from *Rhodospirillum rubrum* 340
Flavell AJ → Leigh Brown AJ 208
Flavell RB → Trick M 112
Fognini-Lefebvre N → Lazzaroni JC 460
Follettie MT → Eikmanns BJ 330
Forsbach V, Pillar T, Gottenöf T, Rödel G: Chromosomal localization and expression of *CBS1*, a translational activator of cytochrome *b* in yeast 57
Francoz E → Dahl MK 199
Franz G, Hatzopoulos P, Jones TJ, Krauss M, Sung ZR: Molecular and genetic analysis of an embryonic gene, DC 8, from *Daucus carota* L. 143
Freemer CS → Hoffmann GR 377
Fromm H → Galili S 289
Frost L, Lee S, Yanchar N, Paranchych W: *finP* and *fisO* mutations in FinP antisense RNA suggest a model for FinOP action in the repression of bacterial conjugation by the F*lac* plasmid JCFL0 152
Fujita N → Nakayama M 384

Gale MD → Chao S 423
Galili S, Fromm H, Aviv D, Edelman M, Galun E: Ribosomal protein S12 as a site for streptomycin resistance in *Nicotiana* chloroplasts 289
Galun E → Galili S 289
Gasson M → Shearman C 214
Geerse RH, Pluijm J van der, Postma PW: The repressor of the PEP: Fructose phosphotransferase system is required for the transcription of the *pps* gene of *Escherichia coli* 348
Geiser M → Schurter W 177
Gelbart WM → Wu C-t 559
Gerasimova TI → Leigh Brown AJ 208
Gerstner J → Schiebel K 302
Ghelardini P → Paolozzi L 13
Giasson L, Specht CA, Milgrim C, Novotny CP, Ullrich RC: Cloning and comparison of *Aα* mating-type alleles of the Basidiomycete *Schizophyllum commune* 72
Gigliani F, Sporeno E, Perri S, Battaglia PA: The *uvp1* gene of plasmid pR cooperates with *mucAB* genes in the DNA repair process 18
Giorda R → Shaw DR 453
Giordano G → Blasco F 249
Gossele V → De Almeida ERP 78
Gottenöf T → Forsbach V 57
Granot D, Margolskee JP, Simchen G: A long region upstream of the *IME1* gene regulates meiosis in yeast 308
Griot MU → Eikmanns BJ 330

Groenen MAM → Diez B 572
Grossman AR → Hostos EL de 229
Gualerzi CO → Pon CL 355
Gurr SJ → Hawkins AR 105

Haase E, Riehl D, Mack M, Brendel M: Molecular cloning of *SNM1*, a yeast gene responsible for a specific step in the repair of cross-linked DNA 64
Hamat HB, Kleinhofs A, Warner RL: Nitrate reductase induction and molecular characterization in rice (*Oryza sativa* L.) 93
Hatzopoulos P → Franz G 143
Hawkins AR, Gurr SJ, Montague P, Kinghorn JR: Nucleotide sequence and regulation of expression of the *Aspergillus nidulans gdh* A gene encoding NADP dependent glutamate dehydrogenase 105
Hayles J → Carr AM 41
Hemleben V → Schiebel K 302
Hiraga S → Ezaki B 183
Hiraga S → Watanabe E 431
Hoffmann GR, Freemer CS, Parente LA: Induction of genetic duplications and frameshift mutations in *Salmonella typhimurium* by acridines and acridine mustards: Dependence on covalent binding of the mutagen to DNA 377
Hofnung M → Dahl MK 199
Hondel CAMJJ van den → Unkles SE 99
Hontelez JGJ, Klein Lankhorst R, Katinakis P, Bos RC van den, Kammen A van: Characterization and nucleotide sequence of a novel gene *fixW* upstream of the *fixABC* operon in *Rhizobium leguminosarum* 536
Höricke C → Wingender R 315
Horne M, Pfeifer F: Expression of two gas vacuole protein genes in *Halobacterium halobium* and other related species 437
Hostos EL de, Schilling J, Grossman AR: Structure and expression of the gene encoding the periplasmic arylsulfatase of *Chlamydomonas reinhardtii* 229
Hove-Jensen B → Nilsson D 565
Huang HV → Shen P 358
Hughes VM → Sedgwick SG 323
Hütter R → Sosio M 169
Hynes MJ → Sandeman RA 87

Iino T → Suzuki Y 284
Inamoto S → Watanabe E 431
Iobbi C → Blasco F 249
Ishihama A → Nakayama M 384

Jones RS → Wu C-t 559
Jones TJ → Franz G 143
Jury K → Shearman C 214

Kaiser D → Mayo KA 409
Kammen A van → Hontelez JGJ 536
Katinakis P → Hontelez JGJ 536
Kearsey SE → Kipling D 531
Kemble R → Erickson L 419
Kempken F, Meinhardt F, Esser K: *In organello* replication and viral affinity of linear, extrachromosomal DNA of the ascomycete *Ascobolus immersus* 523
Kim SU → Watanabe E 431
Kinghorn JR → Hawkins AR 105
Kinghorn JR → Unkles SE 99
Kipling D, Kearsey SE: Analysis of expression of hybrid yeast genes containing ARS elements 531
Klein Lankhorst R → Hontelez JGJ 536
Kleinhofs A → Hamat HB 93
Krauss M → Franz G 143
Krebbers E → De Almeida ERP 78
Kück U: The intron of a plastid gene from a green alga contains an open reading frame for a reverse transcriptase-like enzyme 257
Kupsch J, Alonso JC, Trautner TA: Analysis of structural and biological parameters affecting plasmid deletion formation in *Bacillus subtilis* 402

Lane D → Feyter R de 481
Lasko PF → Wu C-t 559
Lassner MW, Palys JM, Yoder JI: Genetic transactivation of *Dissociation* elements in transgenic tomato plants 25
Lazzaroni JC, Fognini-Lefebvre N, Portalier R: Cloning of the *excC* and *excD* genes involved in the release of periplasmic proteins by *Escherichia coli* K12 460
Lebilcot S → Le Chevanton L 390
Leblon G → Le Chevanton L 390
Le Chevanton L, Leblon G, Lebilcot S: Duplications created by transformation in *Sordaria macrospora* are not inactivated during meiosis 390
Lee M-H → Watanabe E 431
Lee S → Frost L 152
Lehman DJ → Das RC 240
Leible MB → Schneider SU 445
Leigh Brown AJ, Ross SJ, Alphey LS, Flavell AJ, Gerasimova TI: Instability in the ct^{MR2} strain of *Drosophila melanogaster*: Role of P element functions and structure of revertants 208
Lejeune P, Bertin P, Walon C, Willemot K, Colson C, Danchin A: A locus involved in kanamycin, chloramphenicol and L-serine resistance is located in the *bglY-galU* region of the *Escherichia coli* K12 chromosome 361
Le Menn A → Silber J 475
Liebart JC → Paolozzi L 13
Lieberman HB, Riley R, Martel M: Isolation and initial characterization of a *Schizosaccharomyces pombe* mutant exhibiting temperature-dependent radiation sensitivity due to a mutation in a previously unidentified *rad* locus 554
Løbner-Olesen A → Skarstad K 50
Lodwick D → Sedgwick SG 323
Longstaff M → Chao S 423
Lowery RG → Fitzmaurice WP 340
Ludden PW → Fitzmaurice WP 340
Lukacsovich T, Venetianer P: A new procedure for the targeted inactivation of essential bacterial genes 364

Maas R, Saadi S, Maas WK: Properties and incompatibility behavior of miniplasmids derived from the bireplicon plasmid pCG86 190
Maas WK → Maas R 190
Mack M → Haase E 64
MacNeill SA → Carr AM 41
Macro JA → Unkles SE 99
Madoń J → Sosio M 169
Makino K → Tao K 371
Manning PA → Ward HM 367
Manson MD → Dahl MK 199
Margolskee JP → Granot D 308
Marrs BL → Young DA 1
Martel M → Lieberman HB 554
Martín JF → Díez B 572
Martin M, Meng YB, Chia W: Regulatory elements involved in the tissue-specific expression of the *yellow* gene of *Drosophila* 118
Mathé D → Schurter W 177
Mayo KA, Kaiser D: *asgB*, a gene required early for developmental signalling, aggregation, and sporulation of *Myxococcus xanthus* 409
McEntee K → Bradshaw VA 465
Meinhardt F → Kempken F 523
Meng YB → Martin M 118
Meyenburg K von → Skarstad K 50
Milgrim C → Giasson L 72
Montague P → Hawkins AR 105
Mori H → Ezaki B 183
Mori H → Watanabe E 431
Muller CG → De Almeida ERP 78

Nagai K → Watanabe E 431
Nakata A → Tao K 371
Nakayama M, Fujita N, Ohama T, Osawa S, Ishihama A: *Micrococcus luteus*, a bacterium with a high genomic G+C content, contains *Escherichia coli*-type promoters 384
Nicosia A → Paolozzi L 13
Niki H → Ezaki B 183
Nilsson D, Hove-Jensen B, Arnvig K: Primary structure of the *tms* and *prs* genes of *Bacillus subtilis* 565
Novotny CP → Giasson L 72
Nurse P → Carr AM 41

Ogua T → Watanabe E 431
Ogura T → Ezaki B 183
Ohama T → Nakayama M 384
Ohmachi T → Shaw DR 453
Osawa S → Nakayama M 384

Palys JM → Lassner MW 25
Paolozzi L, Nicosia A, Liebart JC, Ghelardini P: Synchronous division induced in *Escherichia coli* K12 by *gemts* mutants of phage Mu 13
Paranchych W → Frost L 152
Parente LA → Hoffmann GR 377
Parker J → Precup J 397
Pelisson A → Busseau I 222
Perri S → Gigliani F 18
Pfeifer F → Horne M 437
Pillar T → Forsbach V 57
Piškur J: Transmission of the yeast mitochondrial genome to progeny: The impact of intergenic sequences 161
Pluijm J van der → Geerse RH 348
Pon CL, Brombach M, Thamm S, Gualerzi CO: Cloning and characterization of a gene cluster from *Bacillus stearothermophilus* comprising *infC*, *rpmI* and *rplT* 355
Portalier R → Lazzaroni JC 460

Postma PW → Geerse RH 348
Precup J, Ulrich AK, Roopnarine O, Parker J: Context specific misreading of phenylalanine codons 397

Rabouille F → Sagliocco F 545
Raines CA → Chao S 423
Reynaerts A → De Almeida ERP 78
Richter H → Shaw DR 453
Riehl D → Haase E 64
Riley R → Lieberman HB 554
Roberts GP → Fitzmaurice WP 340
Rödel G → Forsbach V 57
Roeder GS → Thompson EA 293
Röhrig H → Wingender R 315
Roopnarine O → Precup J 397
Ross SJ → Leigh Brown AJ 208
Rothmel RK → Aldrich TL 266
Rowland LJ, Chen Y-C, Chourey PS: Anaerobic treatment alters the cell specific expression of *Adh-1*, *Sh*, and *Sus* genes in roots of maize seedlings 33
Ruiter-Jacobs YMJT de → Unkles SE 99

Saadi S → Maas R 190
Saari LL → Fitzmaurice WP 340
Sagliocco F, Yu L-X, Rabouille F: Hybridization kinetics and gene expression in *Mercurialis annua* flowers: Sexual genotype – specificity and correlation with hormonal contents 545
Salmond GPC → Ellard FM 491
Sandeman RA, Hynes MJ: Isolation of the *facA* (acetyl-Coenzyme A synthetase) and *acuE* (malate synthase) genes of *Aspergillus nidulans* 87
Saurin W → Dahl MK 199
Schell J → Wingender R 315
Schiebel K, Waldburg G von, Gerstner J, Hemleben V: Termination of transcription of ribosomal RNA genes of mung bean occurs within a 175 bp repetitive element of the spacer region 302
Schilling J → Hostos EL de 229
Schneider SU, Leible MB, Yang X-P: Strong homology between the small subunit of ribulose-1,5-bisphosphate carboxylase/oxygenase of two species of *Acetabularia* and the occurrence of unusual codon usage 445
Schueller CME → Weiller G 272
Schurter W, Geiser M, Mathé D: Efficient transformation of *Bacillus thuringiensis* and *B. cereus* via electroporation: Transformation of acrystalliferous strains with a cloned delta-endotoxin gene 177
Schweizer HP, Datta P: Identification and DNA sequence of *tdcR*, a positive regulatory gene of the *tdc* operon of *Escherichia coli* 516
Schweyen RJ → Weiller G 272
Sedgwick SG, Thomas SM, Hughes VM, Lodwick D, Strike P: Mutagenic DNA repair genes on plasmids from the 'pre-antibiotic era' 323
Sharp PJ → Chao S 423
Shaw DR, Richter H, Giorda R, Ohmachi T, Ennis HL: Nucleotide sequences of *Dictyostelium discoideum* developmentally regulated cDNAs rich in (AAC) imply proteins that contain clusters of asparagine, glutamine, or threonine 453
Shearman C, Underwood H, Jury K, Gasson M: Cloning and DNA sequence analysis of a *Lactococcus* bacteriophage lysin gene 214
Shen P, Huang HV: Effect of base pair mismatches on recombination via the RecBCD pathway 358
Shinagawa H → Tao K 371
Shultz JL → Das RC 240
Silber J, Bazin C, Le Menn A: Vestigal mutants of *Drosophila melanogaster* live better in the presence of aminopterin: Increased level of dihydrofolate reductase in a mutant 475
Simchen G → Granot D 308
Sinskey AJ → Eikmanns BJ 330
Skarstad K, Løbner-Olesen A, Atlung T, Meyenburg K von, Boye E: Initiation of DNA replication in *Escherichia coli* after overproduction of the DnaA protein 50
Solingen P van → Diez B 572
Sosio M, Madoń J, Hütter R: Excision of pIJ408 from the chromosome of *Streptomyces glaucescens* and its transfer into *Streptomyces lividans* 169
Specht CA → Giasson L 72
Sporeno E → Gigliani F 18
Stall RE → Bonas U 127
Staskawicz B → Bonas U 127
Strike P → Sedgwick SG 323
Stubbe W: The *falcifolia* syndrome of *Oenothera*: III. The general pattern of its non-Mendelian inheritance 499
Stubbe W: The *falcifolia* syndrome of *Oenothera:* IV. Loss of *falcifolia*-determining factors 511
Sung ZR → Franz G 143
Suzuki Y, Iino T: *Ars* region in TL-DNA on octopine type Ti plasmids 284
Swanson E → Erickson L 419

Tao K, Makino K, Yonei S, Nakata A, Shinagawa H: Molecular cloning and nucleotide sequencing of *oxyR*, the positive regulatory gene of a regulon for an adaptive response to oxidative stress in *Escherichia coli:* Homologies between OxyR protein and a family of bacterial activator proteins 371
Thamm S → Pon CL 355
Thomas SM → Sedgwick SG 323
Thompson EA, Roeder GS: Expression and DNA sequence of *RED1*, a gene required for meiosis I chromosome segregation in yeast 293
Timko MP → De Almeida ERP 78
Trautner TA → Kupsch J 402
Trick M, Flavell RB: A homozygous *S* genotype of *Brassica oleracea* expresses two *S*-like genes 112

Ullrich RC → Giasson L 72
Ulrich AK → Precup J 397
Underwood H → Shearman C 214
Unkles SE, Campbell EI, Ruiter-Jacobs YMJT de, Broekhuijsen M, Macro JA, Carrez D, Contreras R, Hondel CAMJJ van den, Kinghorn JR: The development of a homologous transformation system for *Aspergillus oryzae* based on the nitrate assimilation pathway: A convenient and general selection system for filamentous fungal transformation 99

Veenstra AE → Diez B 572
Venetianer P → Lukacsovich T 364

Waldburg G von → Schiebel K 302
Wallace C → Feyter R de 481
Walon C → Lejeune P 361
Ward HM, Manning PA: Mapping of chromosomal loci associated with lipopolysaccharide synthesis and serotype specificity in *Vibrio cholerae* 01 by transposon mutagenesis using Tn*5* and Tn*2680* 367
Warner RL → Hamat HB 93
Watanabe E, Inamoto S, Lee M-H, Kim SU, Ogua T, Mori H, Hiraga S, Yamasaki M, Nagai K: Purification and characterization of the *sopB* gene product which is responsible for stable maintenance of mini-F plasmid 431
Weiller G, Schueller CME, Schweyen RJ: Putative target sites for mobile G+C rich clusters in yeast mitochondrial DNA: Single elements and tandem arrays 272
Willemot K → Lejeune P 361
Williams JC → Young DA 1
Wing D → Wingender R 315
Wingender R, Röhrig H, Höricke C, Wing D, Schell J: Differential regulation of soybean chalcone synthase genes in plant defence, symbiosis and upon environmental stimuli 315
Wu C-t, Jones RS, Lasko PF, Gelbart WM: Homeosis and the interaction of zeste and white in *Drosophila* 559

Yamasaki M → Watanabe E 431
Yanchar N → Frost L 152
Yang X-P, → Schneider SU 445
Yoder JI → Lassner MW 25
Yonei S → Tao K 371
Young DA, Bauer CE, Williams JC, Marrs BL: Genetic evidence for superoperonal organization of genes for photosynthetic pigments and pigment-binding proteins in *Rhodobacter capsulatus* 1
Yu L-X → Sagliocco F 545

Zádor E: Tissue specific expression of the acetylcholinesterase gene in *Drosophila melanogaster* 487

Indexed in *Current Contents*